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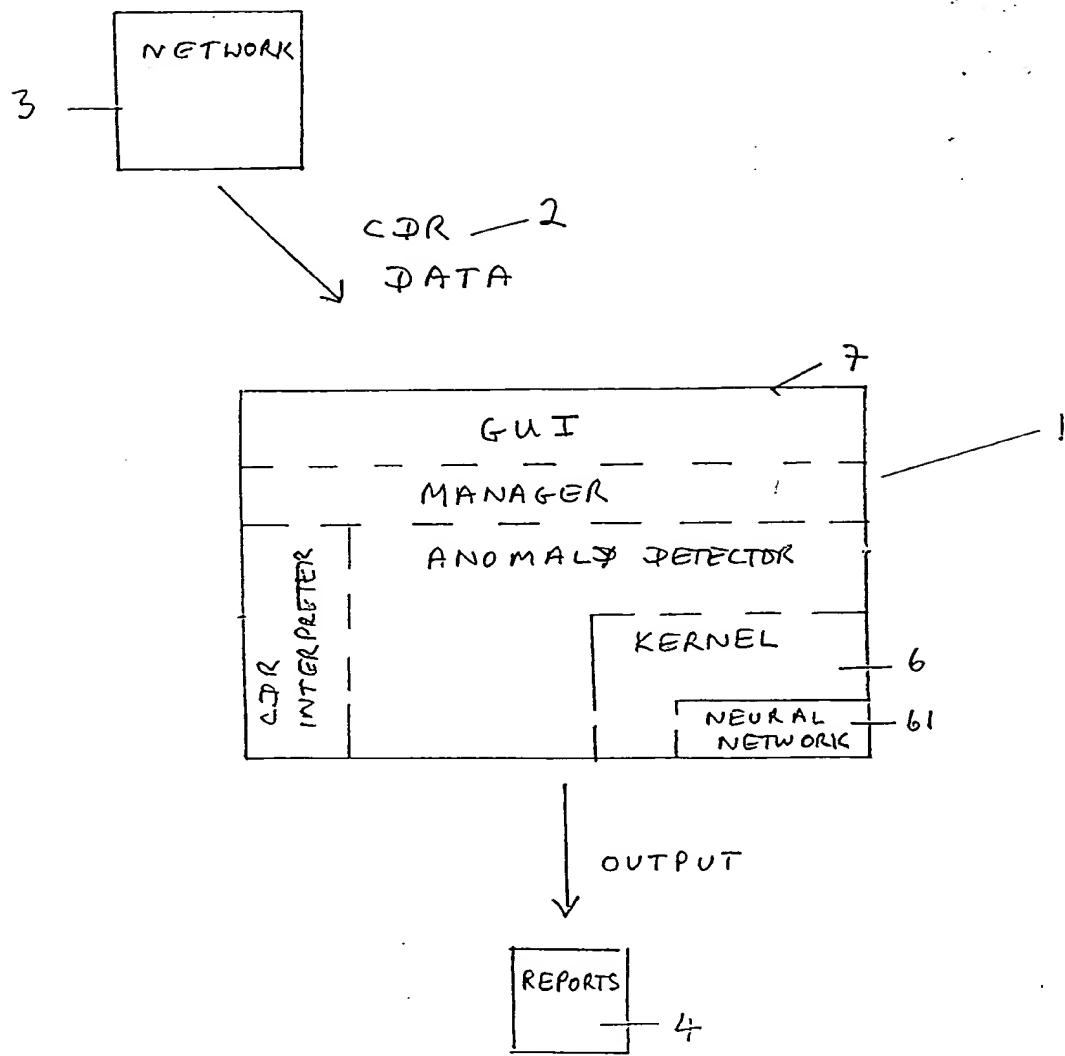


FIGURE 1

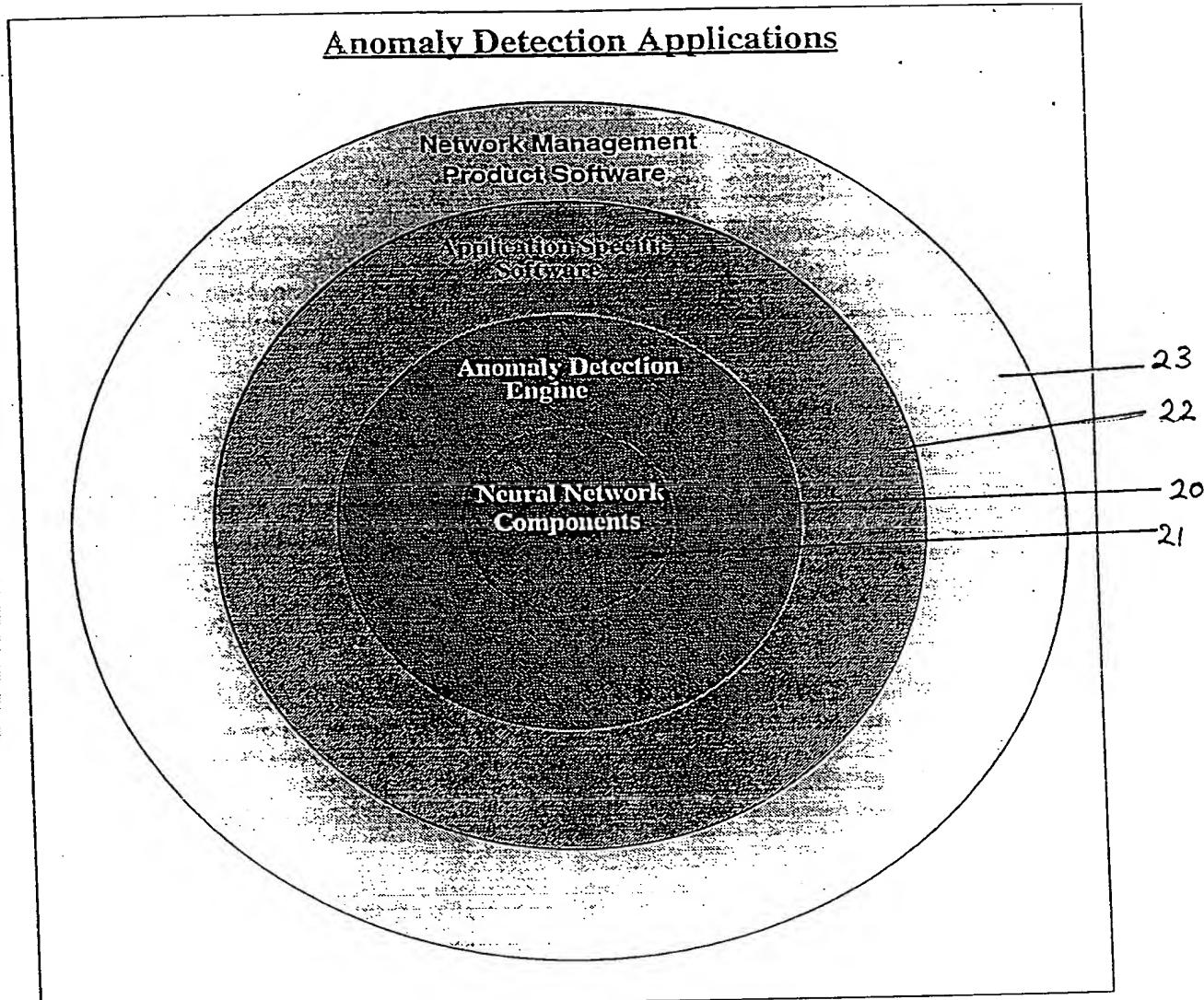


FIGURE 2.

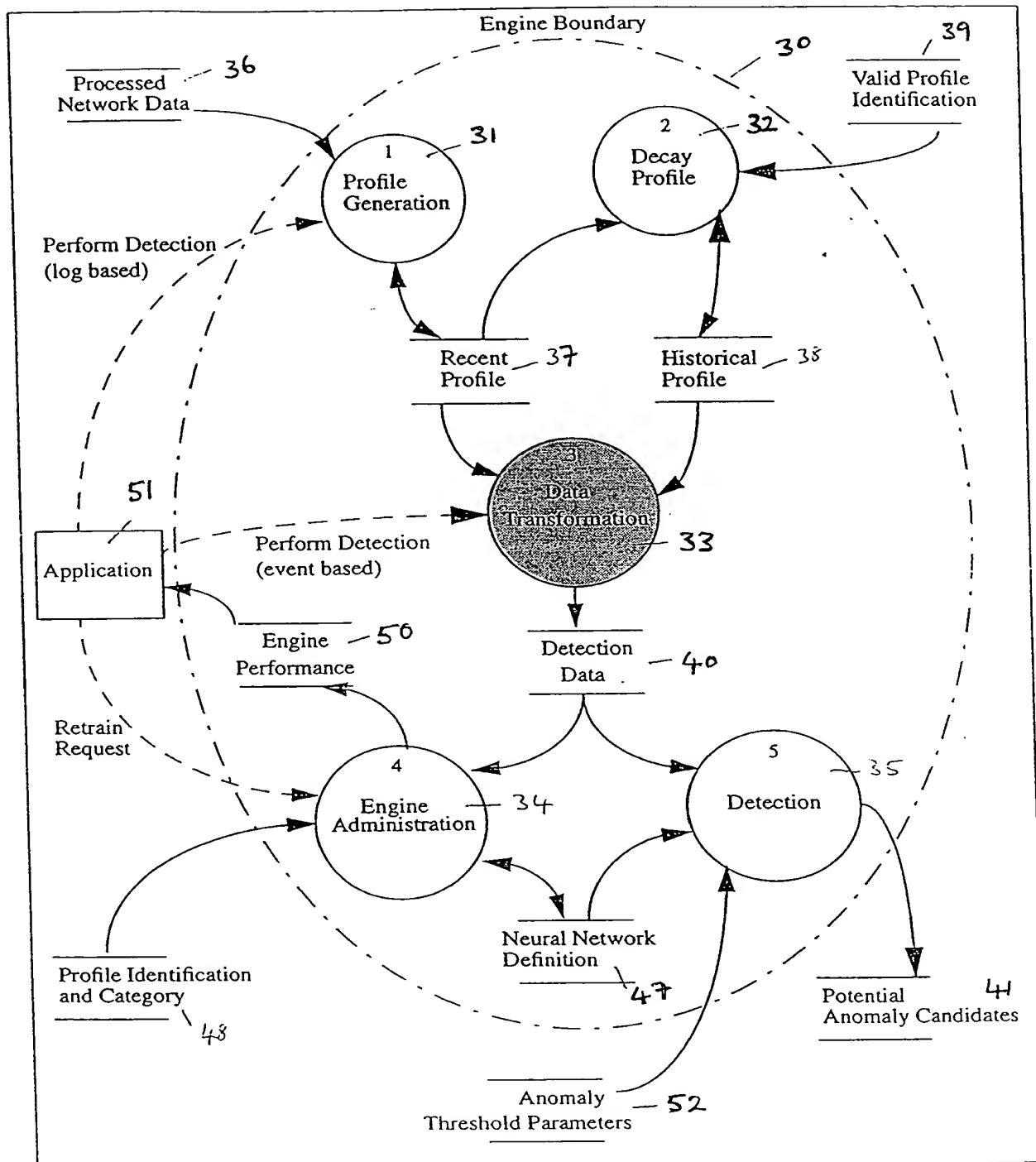
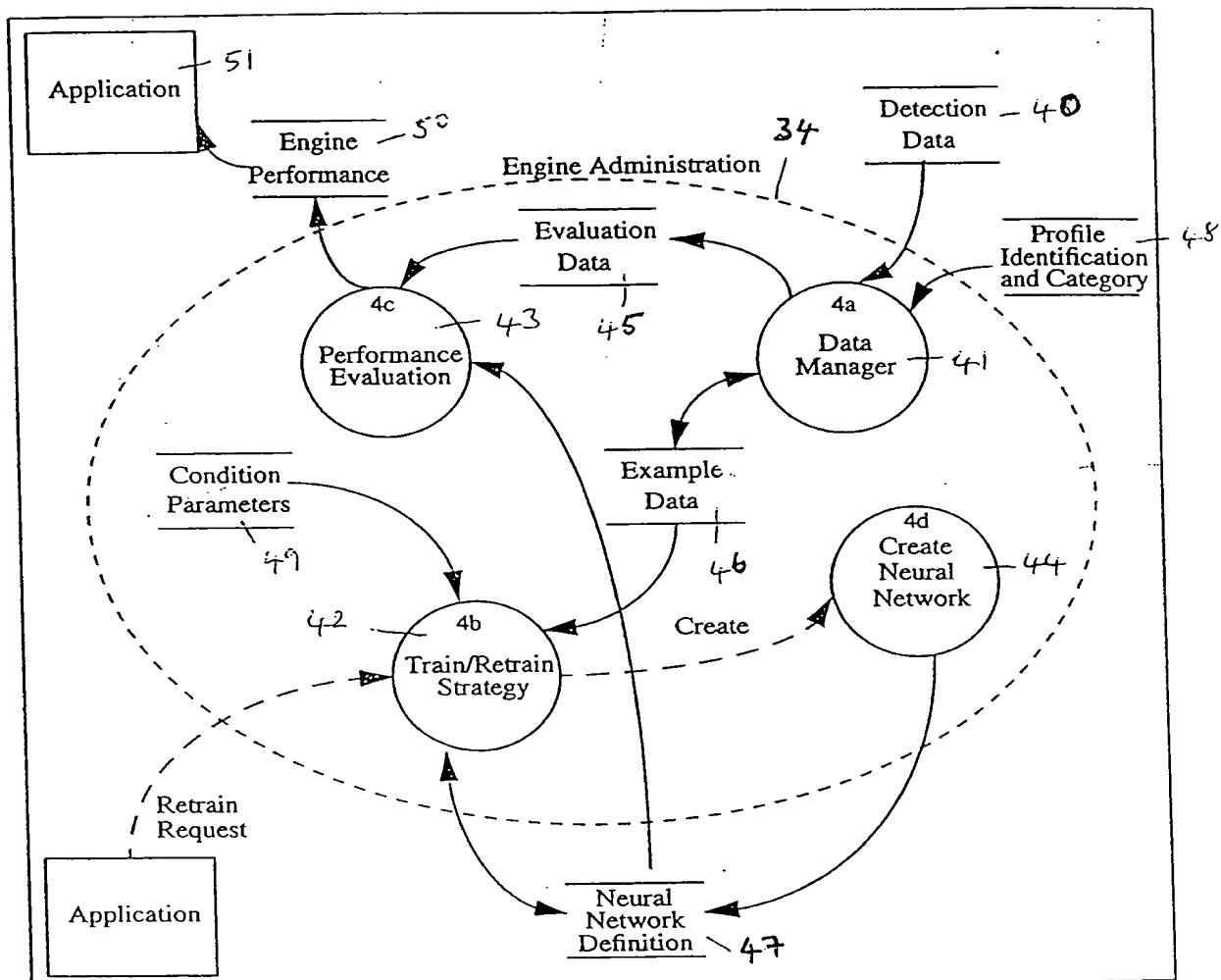


FIGURE 3



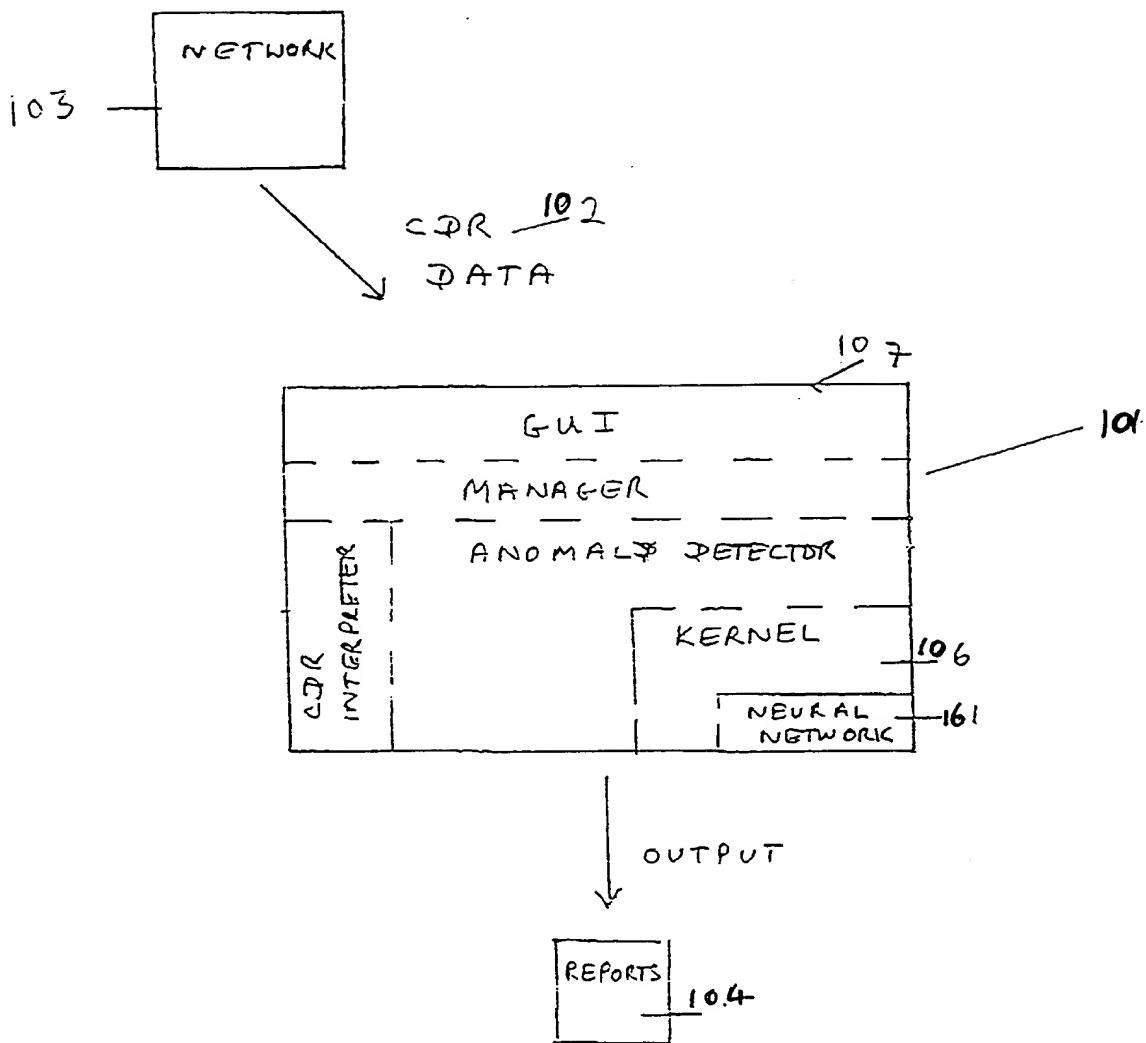


FIGURE 5

6/15

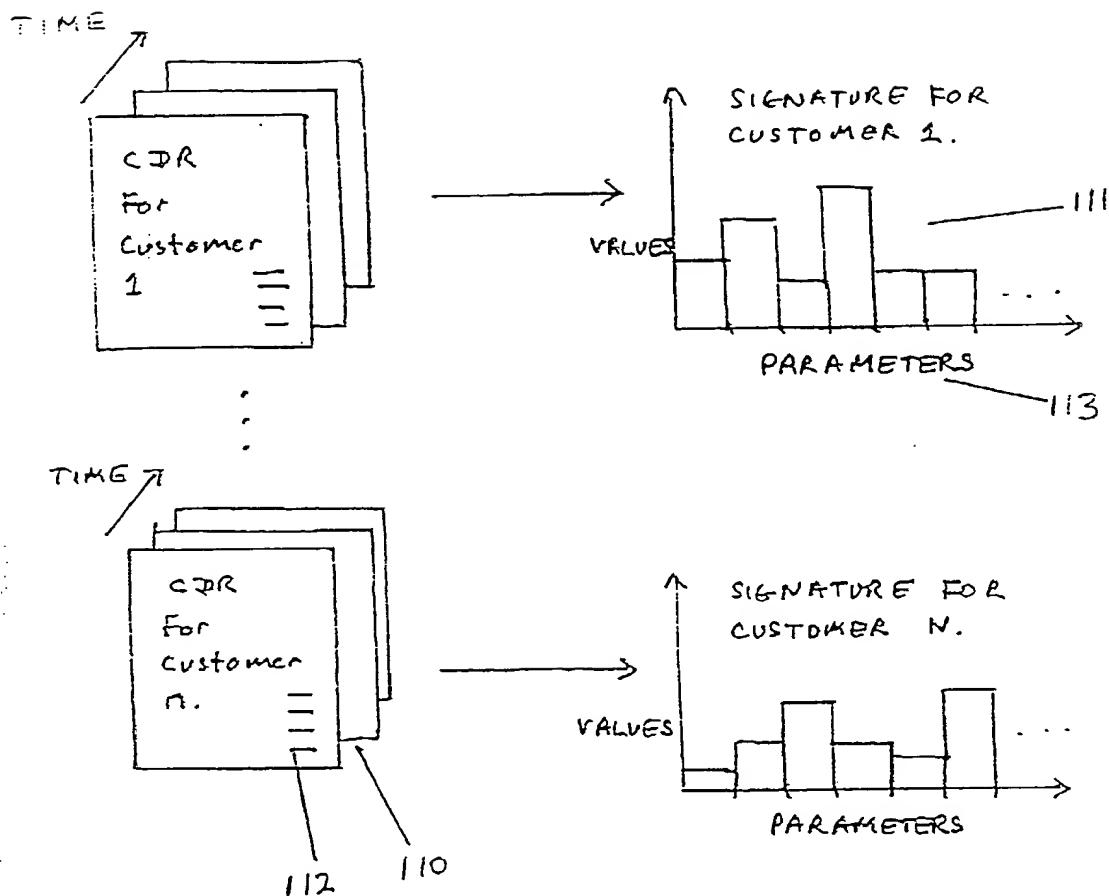


FIGURE 6

7/15

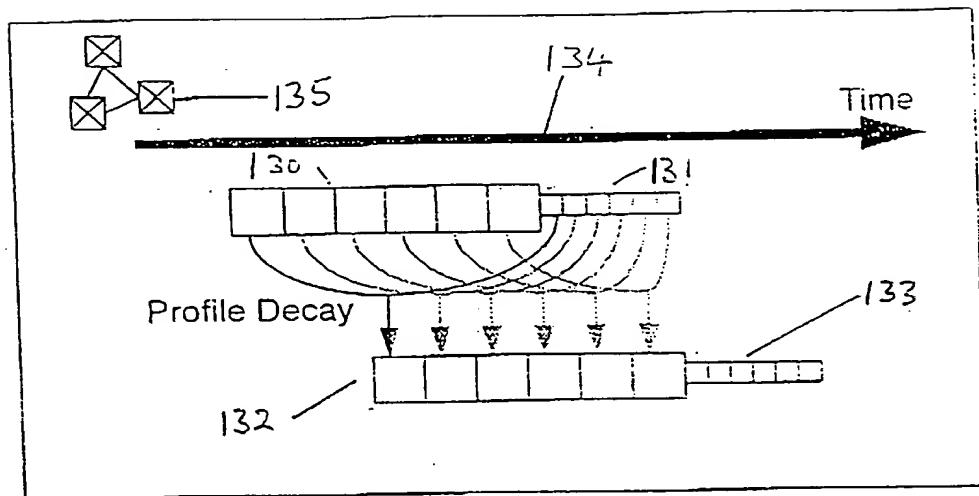
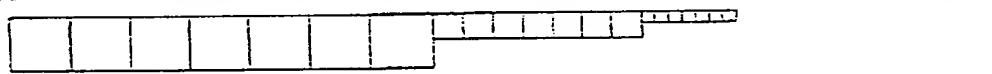


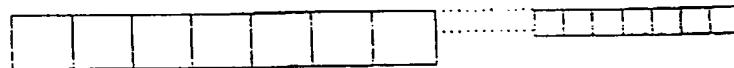
FIGURE 7

Profile Decay

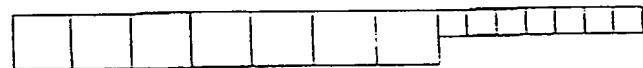
Collect Poll Period Data



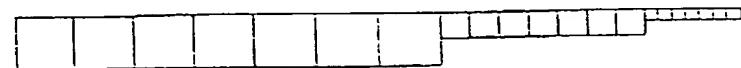
Update Recent & Detect



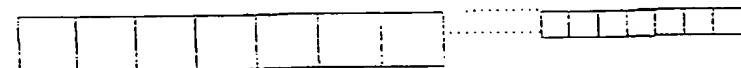
Update Historic



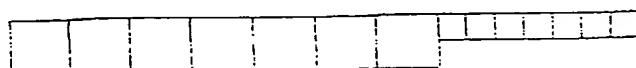
Collect Poll Period Data



Update Recent & Detect



Update Historic



Collect Poll Period Data



FIGURE 8

8/15

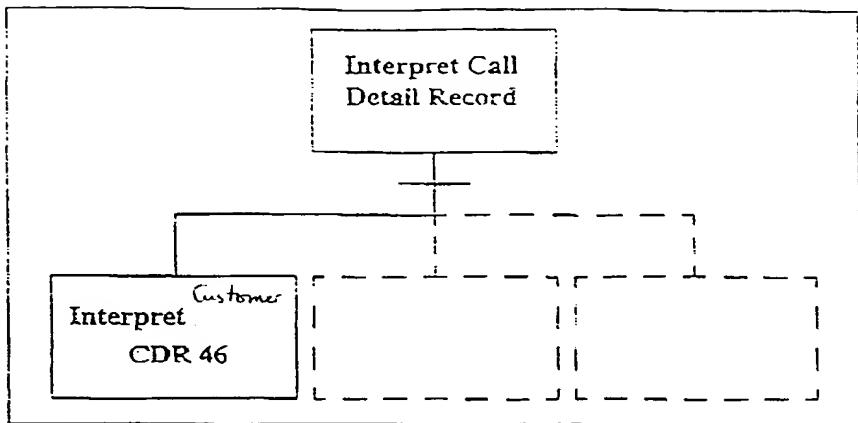


FIGURE 9

Element Name	Position (From 0)	Format
CALL_START_DT	9	YYYY-MM-DD HH:MM:SS.ss
LONG_DUR_CALL_IND	12	1— First 6 hours 2 — Middle 3 — Completed
SERVICE_FEATURE_CODE	15	00 — Other 10 — Three way calling 12 — Call forwarding 14 — Call forward busy
ORIG_TELNO	16	CHAR(24)
CALL_DURATION	20	MMMMSS
ORIG_NNG	22	DDDD
DEST_NNG	23	DDDD
DAY_OF_WEEK	24	1-7 (Mon=1, Sun=7)

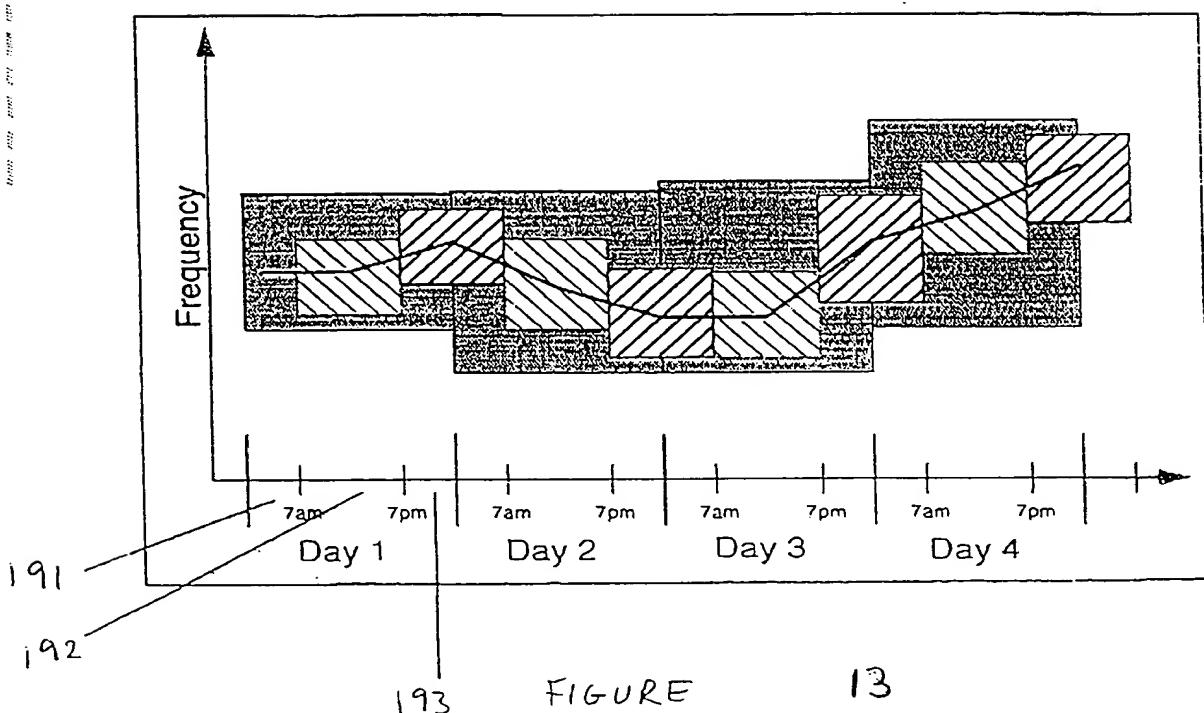
FIGURE 10

9/15

Attribute name	Type
AccountNumber	String
CallForward	Boolean
LongCall	Boolean
Duration	Integer
Destination	Enum {Local, National, International}
DayOfWeek	Enum {Monday, Tuesday,, Sunday}
CallTime	Time

FIGURE 11

DATA DICTIONARY



10/15

Profile Field No.	Attribute	Coverage Time Period	Type	Range
1	% Local		float	0.00—1.00
2	% National		float	0.00—1.00
3	% International		float	0.00—1.00
4	Total Number of Calls		float	N/A
5	Average Duration		float (number of seconds)	N/A
6	Number of Long Calls		float	N/A
7	No. of Call Forwards		float	N/A
8	% Monday	00:00:00—23:59:59	float	0.00—1.00
9	% Tuesday	00:00:00—23:59:59	float	0.00—1.00
10	% Wednesday	00:00:00—23:59:59	float	0.00—1.00
11	% Thursday	00:00:00—23:59:59	float	0.00—1.00
12	% Friday	00:00:00—23:59:59	float	0.00—1.00
13	% Saturday	00:00:00—23:59:59	float	0.00—1.00
14	% Sunday	00:00:00—23:59:59	float	0.00—1.00
15	% 7am -> 7pm Monday	07:00:01—19:00:00	float	0.00—1.00
16	% 7pm Monday -> 7am Tuesday	19:00:01—07:00:00	float	0.00—1.00
17	% 7am -> 7pm Tuesday	07:00:01—19:00:00	float	0.00—1.00
18	% 7pm Tuesday -> 7am Wednesday	19:00:01—07:00:00	float	0.00—1.00
19	% 7am -> 7pm Wednesday	07:00:01—19:00:00	float	0.00—1.00
20	% 7pm Wednesday -> 7am Thursday	19:00:01—07:00:00	float	0.00—1.00
21	% 7am -> 7pm Thursday	07:00:01—19:00:00	float	0.00—1.00
22	% 7pm Thursday -> 7am Friday	19:00:01—07:00:00	float	0.00—1.00
23	% 7am -> 7pm Friday	07:00:01—19:00:00	float	0.00—1.00
24	% 7pm Friday -> 7am Saturday	19:00:01—07:00:00	float	0.00—1.00
25	% 7am -> 7pm Saturday	07:00:01—19:00:00	float	0.00—1.00
26	% 7pm Monday -> 7am Sunday	19:00:01—07:00:00	float	0.00—1.00
27	% 7am -> 7pm Sunday	07:00:01—19:00:00	float	0.00—1.00
28	% 7pm Monday -> 7am Monday	19:00:01—07:00:00	float	0.00—1.00

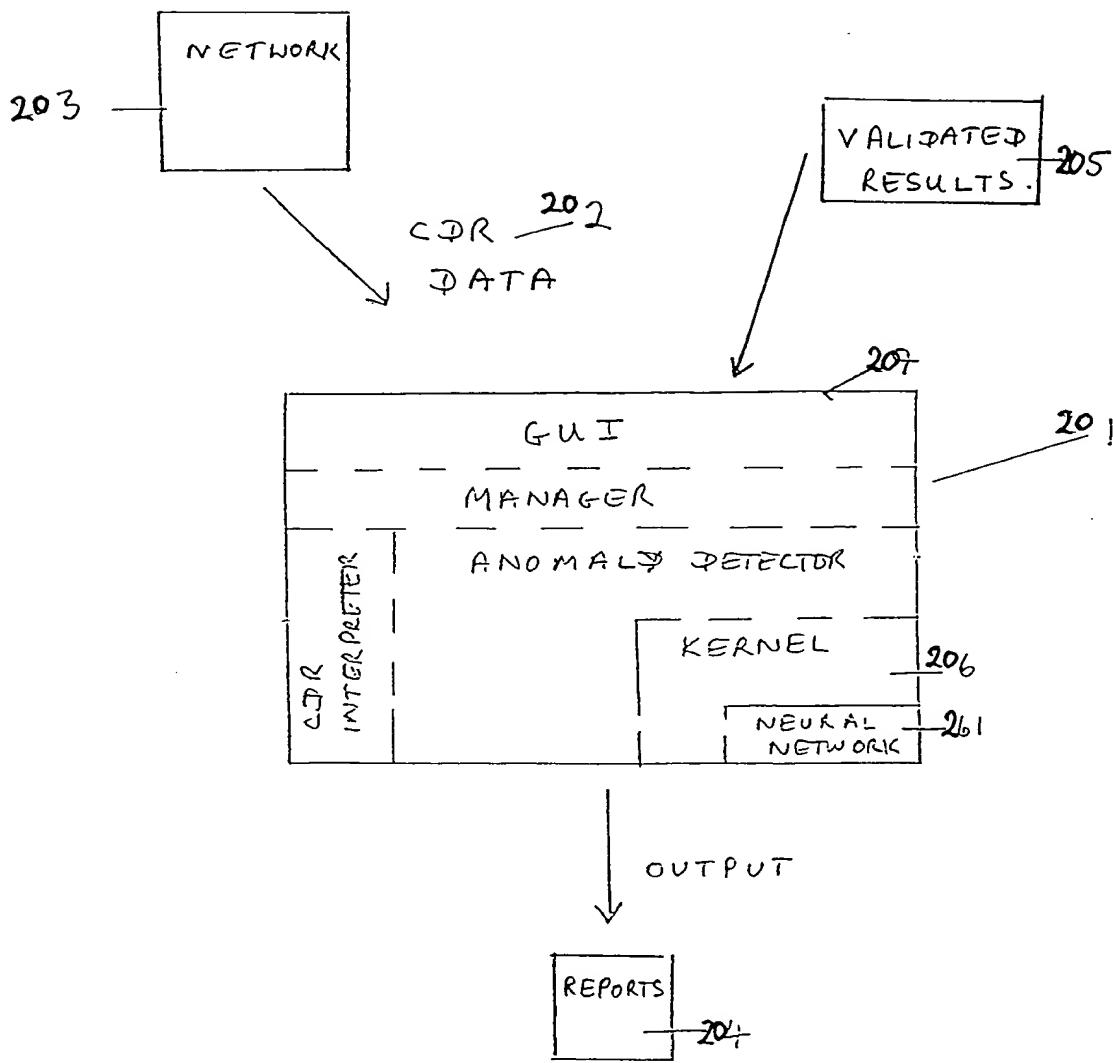


FIGURE 14

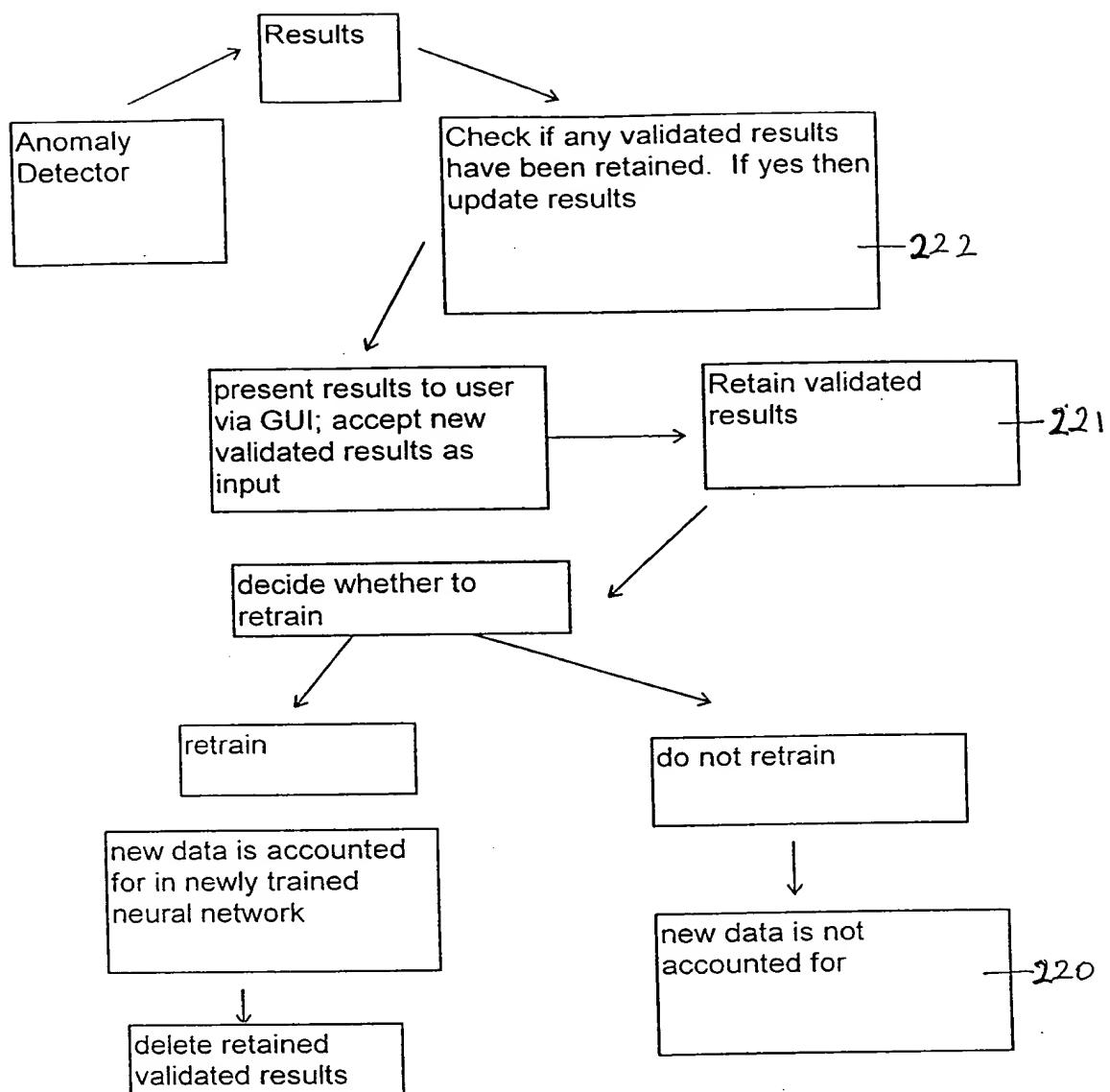
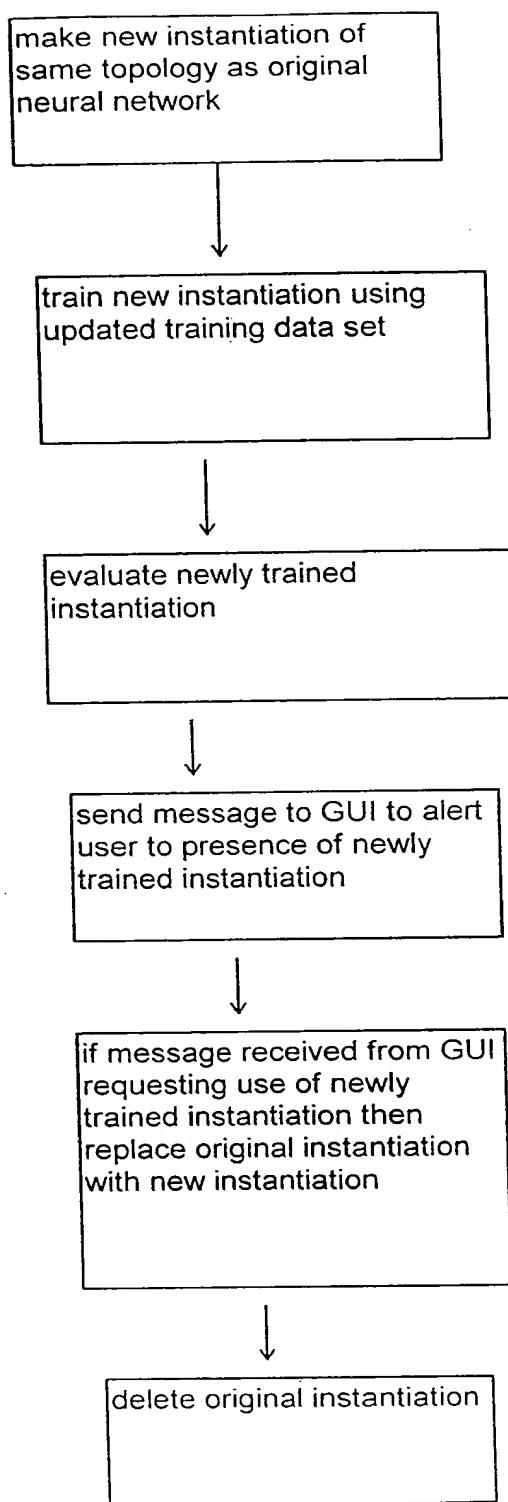


FIGURE 15



File > Print > Windows > Help

File: [cdFile] Date: 31-10-96 11:41 AM Reload

Overall Statistics Selection Statistics

Accounts: 591	Accounts: 16
Fraudulent Behaviour: 46	Fraudulent Behaviour: 16
Expected Behaviour: 555	Expected Behaviour: 10

Coverage: all dataset individual

Display	Selection Criteria	Order
<input checked="" type="checkbox"/> Fraudulent <input type="checkbox"/> Expected <input type="checkbox"/> Both	<input type="checkbox"/> All <input type="checkbox"/> Confidence: <input type="checkbox"/> 95 <input type="checkbox"/> Limit to: <input type="checkbox"/> 100	<input type="checkbox"/> Confidence <input type="checkbox"/> Duration
Notice: 01279402460		Update

243

Account	Behaviour	Confidence (%)	Duration (secs)	Validity
01279402460	Fraudulent	99.99	23027	Correct
01279402612	Expected	99.93	3121	Incorrect
01279403610	Fraudulent	99.99	191513	
01279403076	Fraudulent	99.99	23027	
01279402946	Fraudulent	99.99	15859	Fraud
01279403252	Fraudulent	99.99	255802	Expected
01279402490	Fraudulent	99.99	23027	
01279402102	Expected	99.98	3027	
01279403210	Fraudulent	99.97	191513	
01279403046	Fraudulent	99.97	23027	
01279402046	Fraudulent	99.97	15859	
01279403259	Fraudulent	99.97	255802	

240

241

242

244

Validation	Correct	Incorrect	Clear	Clear All	Add Knowledge
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Messages

FIGURE 17

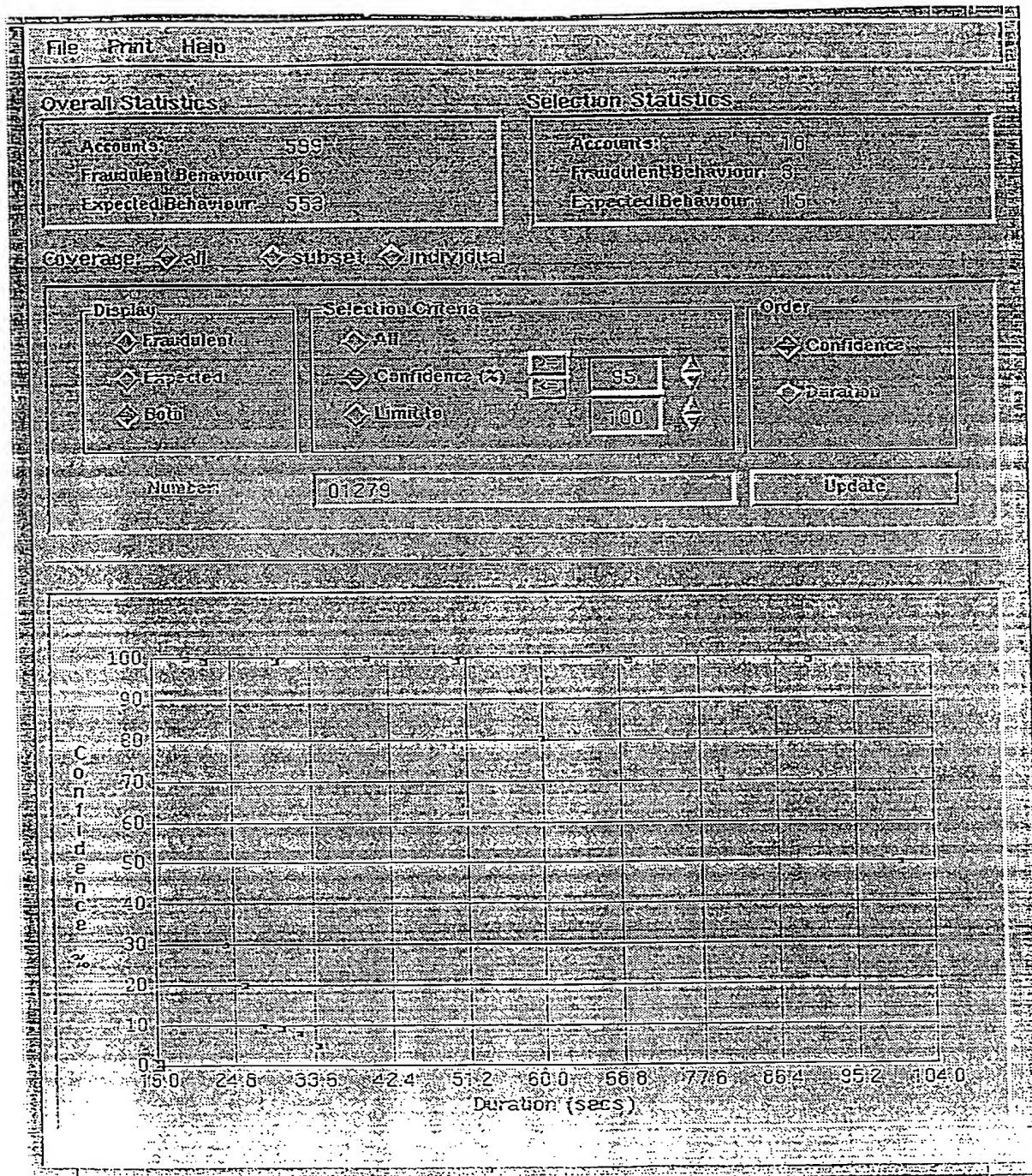


FIGURE 18